Docket No.: 20052/1200522-US1

## **AMENDMENTS TO THE CLAIMS**

- 1. (Currently Amended) A method for inducing <u>antigen-specific</u> T-cell tolerance or non-responsiveness of donor T-cells to desired alloantigen-bearing cells *ex vivo* comprising the following:
  - (i) purifying CD4<sup>+</sup> T-cells from donor tissue;
  - (ii) irradiating alloantigen-bearing cells obtained from a recipient to deplete recipient T-cells;
  - (iii) producing a mixed lymphocyte reaction culture comprising the purified donor CD4<sup>+</sup> T-cells and irradiated, T-cell depleted alloantigen-bearing cells obtained from a recipient;
  - (iv) adding an anti-gp39 antibody to the culture, thereby initiating a mixed lymphocyte reaction culture comprising purified donor CD4<sup>+</sup> T-cells, T-cell depleted recipient alloantigen-bearing cells, and anti-gp39 antibody;
  - (v) maintaining the mixed lymphocyte reaction culture ex vivo for a sufficient time to render the donor CD4<sup>+</sup> T-cells substantially tolerant or non-responsive to said alloantigen-bearing cells, and
  - (vi) assaying ex vivo for induction of donor CD4<sup>+</sup> T-cell tolerance or non-responsiveness.
- 2. (Previously Presented) The method of Claim 1, wherein the donor tissue is donor bone marrow or peripheral blood cells.
  - 3. (Canceled)
- 4. (Previously Presented) The method of Claim 1, wherein the gp39 antibody is an anti-human gp39 monoclonal antibody.
- 5. (Previously Presented) The method of Claim 4, wherein said anti-gp39 antibody is a chimeric or humanized anti-human gp39 monoclonal antibody.

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6. (Currently Amended) The method of Claim 1, wherein the donor T-cells are cultured in step (v) for a time ranging from about  $\frac{5}{2}$  to 30 days.

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- 7. (Currently Amended) The method of Claim 6, wherein said donor T-cells are cultured in step (v) for a time ranging from 6 to of about 10 days.
  - 8-9. (Canceled)
- 10. (Previously Presented) The method of Claim 1, wherein the donor T-cells that have been determined to be tolerized by the assay of step (vi) are transplanted into a recipient in need of such transplantation.
- 11. (Original) The method of Claim 10, wherein the recipient is in need of immune reconstitution as a result of disease or disease treatment.
  - 12. (Canceled)
- 13. (Previously Presented) The method of Claim 1, wherein the step of assaying for induction of donor T-cell tolerance or non-responsiveness comprises measuring IL-2 concentration in the cell culture medium supernatants of the donor T-cells cultured in step (v) and of control donor T-cells, wherein detection of reduced IL-2 concentration in the supernatant of the donor T-cells cultured in step (v), relative to the IL-2 concentration in the supernatant of control T-cells, is indicative of substantial donor T-cell tolerance or non-responsiveness to the alloantigen-bearing cells.
- 14. (Withdrawn; Currently Amended) The method of Claim 1, wherein the step of assaying for induction of donor T-cell tolerance or non-responsiveness in step (vi) comprises measuring the concentration of interferon-gamma in the cell culture medium supernatants of the donor T-cells as cultured in step iv (iv) and of control donor T-cells,

wherein detection of reduced interferon-gamma concentration in the supernatant of the donor T-cells <u>as</u> cultured in step <u>iv (iv)</u> relative to that of the control T-cells is indicative of substantial donor T-cell tolerance or non-responsiveness to the alloantigen-bearing cells.

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15. (Withdrawn; Currently Amended) The method of Claim 1, wherein the step of assaying for induction of donor T-cell tolerance or non-responsiveness in step (vi) comprises assaying to detect at least one antigen selected from the group consisting of L-selectin, ICAM-1, and CD45 in the donor T-cells as cultured in step iv (iv) and control donor T-cells,

wherein detection of an increased amount of L-selectin or ICAM-1, or a reduced amount of CD45 in the donor T-cells <u>as</u> cultured in step <u>iv (iv)</u> relative to that in the control donor T-cells is indicative of substantial donor T-cell tolerance or non-responsiveness to the alloantigenbearing cells.